

PATENT APPLICATION  
DOCKET NO. 52298-8USPT

**ABSTRACT**

A method for measuring one or more characteristics of an earth formation whereby energy is emitted circumferentially about a borehole into the formation, and the amount reflected back is detected during a plurality of sample periods. The samples are grouped into two or more groups by the azimuthal sector in which the sample was collected. Within a group, each sample is mathematically weighted according to the standoff of the detector from the borehole wall when the sample was taken. Within a group, the weighted samples are summed to produce a weighted total amount of energy detected within a sector. The weighted total is then transformed into the one or more characteristics.